MODIS sensor Working Group (MsWG) Meeting Summary December 7, 2005

Attendance: Vincent Chiang, Gene Eplee, Gerhard Meister, Chris Moeller, Gary Toller, Zhengming Wan, Aisheng Wu, Xiaobo Xie, Jack Xiong (some of the regular attendances go to AGU meeting)

Scheduled Agenda

Item 1: Recent L1B LUT delivery

- Terra collection 4 forward update – V4.3.0.36 (Dec 2) to DAAC.
- Terra collection 5 forward update – V5.0.6.10 (Dec 6) to DAAC.

Item 2: Instrument status

- Terra and Aqua MODIS are in normal operations.
- Terra data loss on day 325 (Nov 21), 23:16:16 – 23:18:02, due to MDA2BITE failure during lock-to replay in the TDW contact.
- Terra data loss on day 331 (Nov 27) 06:44:15 – 07:30:28 due to HGA misconfiguration.
- Reported last time, Terra Band 28 detector 9 (in Product Order) b1 increased and became unstable. See example of b1 and NEdT charts in the package.

Item 2: STM MCST Workshop

- MCST will first present instrument update for about 1hr, then 15min each for Land, Oceans, and Atmosphere groups, and maybe for the calibration/validation.

Around the Table

Participant: **Gary Toller (MCST/L1B)**

There is an Aqua collection 4 LUT delivery today.

Participant: **Gene Eplee & Gerhard Meister (Oceans)**

(1) On the preparation of Terra reprocess.
(2) For the sea surface temperature (SST) algorithm, it is not the calibration issue, but more in the masks problem.

Participant: **Jack Xiong (MCST)**

(1) Oceans group was asking for Terra m1 LUT for the reprocess. There are a lot of epochs for configuration and gain changes in the beginning of the mission. We need to be careful of not making mistake on that. Xiaobo will coordinate and discuss with Oceans group for the m1 delivery.
(2) Terre performed an orbit inclination adjust maneuver today.
CM) What do we expect to see in the MODIS EV data?
JX) Normally the adjust maneuver is done in the night orbit. The Earth sector data will tilt and come back.
(3) We have some progress on the TEB warm-up and cool-down test. I will show to Chris at the Science Team Meeting.

Participant: **Chris Moeller (Atmosphere)**

(1) Focused lately on evaluating SHIS calibration accuracy using comparisons with a surface buoy network on Lake Tahoe. So far the comparisons show SHIS is doing well. I'll bring some slides on this to the Calibration Workshop of the MODIS Science Team Meeting.
(2) I also tried to look at Band 26 nighttime data to see any change or strange behavior from the long-time series. So I ordered the 1KM subset L1B reflected bands data for Band 26 only, trying not to touch volume of data. And it turned out the EV data are filled value in the reflected bands subset 1KM for B26 because it's in nighttime. So I will need to order the regular full 1KM L1B that contain the calibrated B26 EV data in "EV_Band26." (*Note: L1B subset 1KM B26 comes from "EV_1KM_RefSB" in the full MOD021KM* .)

Participant: **Zhengming Wan (Land)**
Lately I have been working on the validation, rather than calibration issue.

Participant: **Jack Xiong:** Next MsWG is scheduled on 12/21. But if there is no instrument issue, we don't have to have the meeting before the Science Team Meeting.

Next MsWG meeting scheduled on December 21, 2005